

# RAMAN SUBEDI

AI/ML Engineer |  
DevOps Enthusiast |  
Fullstack Developer |  
BIT Graduate

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## ABOUT ME

I'm a passionate Information Technology graduate specializing in Artificial Intelligence, Machine Learning, and DevOps engineering. With a strong foundation in software development and a self-driven approach to learning, I build intelligent systems and scalable infrastructure solutions.

Currently expanding my expertise through intensive self-study and hands-on projects while preparing for advanced studies in AI/ML. I believe in the power of technology to solve real-world problems and am always eager to collaborate on innovative projects.

**What drives me:** Curiosity, continuous learning, and the desire to contribute to cutting-edge AI research and applications.

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## EDUCATION

### Bachelor's Degree in Information Technology (BIT)

Tribhuvan University, Nepal | 2019 – 2023

Strong academic foundation in software engineering, data structures, algorithms, and system design with focus on data analysis and backend development.

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## EXPERTISE

### Core Skills

## Programming & Development

Python • C++ • SQL • Bash Scripting

## Artificial Intelligence & Machine Learning

Scikit-learn • Pandas • NumPy • Neural Networks • Data Preprocessing • Feature Engineering • Model Optimization • Supervised Learning • Unsupervised Learning • Statistical Analysis

## DevOps & Infrastructure

Docker • Jenkins • Git • CI/CD Pipelines • Linux Administration • Automation • Containerization  
• Infrastructure as Code • Server Management

## Web & Backend

HTML5 • CSS3 • REST APIs • Backend Integration • Web Services

## Languages

 English – Fluent (Professional working proficiency)

 German – Fluent (Strong command)

 Nepali – Native

 Hindi – Fluent

## FEATURED PROJECTS

### Machine Learning Model Development

Ongoing | Self-Directed Research

 [View on GitHub](#)

Building end-to-end machine learning solutions with focus on practical AI engineering.

#### Highlights:

- Developed predictive models using Python, Scikit-learn, Pandas, and NumPy
- Implemented comprehensive data preprocessing pipelines and feature engineering strategies
- Explored neural network architectures and deep learning fundamentals
- Conducted rigorous model evaluation using cross-validation and performance metrics
- Created reproducible ML workflows with Jupyter Notebooks

**Impact:** Gained hands-on experience in the complete ML lifecycle from data collection to model deployment.

**Tech Stack:** Python • Scikit-learn • Pandas • NumPy • Matplotlib • Seaborn • Jupyter

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## DevOps Infrastructure & CI/CD Automation

Ongoing | Infrastructure Engineering

 [View on GitHub](#)

Designing automated deployment pipelines and scalable infrastructure solutions.

**Highlights:**

- Built automated CI/CD pipelines using Jenkins and Git for continuous integration
- Containerized applications with Docker for consistent cross-environment deployment
- Configured Linux-based server infrastructure simulating production environments
- Implemented automated testing workflows ensuring code quality
- Applied infrastructure-as-code principles for maintainable systems

**Impact:** Streamlined deployment processes and gained practical DevOps experience applicable to real-world scenarios.

**Tech Stack:** Docker • Jenkins • Git • Linux • Bash • YAML

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## Additional Projects

Explore more on my GitHub: [github.com/Raman21676](https://github.com/Raman21676)

Continuously expanding my portfolio with:

- Data visualization projects
  - Algorithm implementations
  - Web scraping automation
  - API development
  - Machine learning experiments
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## PROFESSIONAL EXPERIENCE

### Technology Support Intern

Numa Digital Farm (NDF) | Biratnagar, Nepal

2023 - 2024

Collaborated with technical teams in a fast-paced digital environment, supporting backend operations and platform stability.

#### **Key Contributions:**

- Optimized data handling processes in agile workflows
- Maintained platform stability for content delivery systems
- Conducted comprehensive testing cycles identifying critical bugs
- Applied DevOps principles to improve operational efficiency
- Stayed current with emerging technologies through virtual tech forums

**Technologies:** Backend Systems • Data Processing • Agile Methodologies • Platform Testing

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## **WHAT I'M WORKING ON**

#### **Current Focus:**

- Advanced machine learning techniques and neural networks
- Deep learning fundamentals
- Cloud computing and distributed systems
- Open source contributions
- Preparing for Master's programs in AI/ML

#### **Learning:**

- Deep Learning specializations
  - Advanced DevOps practices
  - Cloud platforms (AWS/Azure/GCP)
  - Computer Vision and NLP foundations
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## **COMMUNITY & LEADERSHIP**

### **Volunteer – Youth Education Initiatives**

**Biratnagar, Nepal | Ongoing**

Active contributor to local educational programs promoting technical literacy and digital skills among youth. Passionate about mentoring aspiring developers and fostering innovation in the community.

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## INTERESTS & GOALS

**Research Interests:** Deep Learning • Computer Vision • Natural Language Processing • Reinforcement Learning • MLOps

**Career Goals:** Pursuing Master's degree in AI/ML to deepen theoretical knowledge and contribute to cutting-edge research while building practical applications that solve real-world problems.

**Always open to:** Collaboration opportunities • Research projects • Innovative ideas • Networking with like-minded professionals

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## LET'S CONNECT

I'm always interested in discussing AI/ML projects, DevOps best practices, collaboration opportunities, or just connecting with fellow tech enthusiasts!

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*"Technology is best when it brings people together and solves real problems."*

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**Last Updated:** December 2025

**Status:** Open to opportunities & collaborations